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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,185	11/15/2003	Varadarajan Srinivasan	NLMI.P138	9807
7:	590 09/27/2005		EXAMINER	
Shemwell Gregory & Courtney LLP			NGUYEN, DANG T	
Suite 201 4880 Stevens Creek Boulevard			ART UNIT	PAPER NUMBER
San Jose, CA 95129			2824	

DATE MAILED: 09/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

= 10	·	Application No.	Applicant(s)			
Office Action Summary		10/713,185	SRINIVASAN ET AL.			
		Examiner	Art Unit			
		Dang T. Nguyen	2824			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
 Responsive to communication(s) filed on <u>15 November 2003</u>. This action is FINAL. 2b) ∑ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposit	ion of Claims					
 4) Claim(s) 1-61 is/are pending in the application. 4a) Of the above claim(s) 1-27 and 36-61 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 28,34,35 and 62 is/are rejected. 7) Claim(s) 29-33 and 63-67 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicat	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>15 November 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Infor	nt(s) Due of References Cited (PTO-892) Due of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) The No(s)/Mail Date 1/8/04 and 8/12/04.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other: <u>Search histo</u>	ate Patent Application (PTO-152)			

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DETAILED ACTION

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1. This action is responsive to the following communications: the Application filed on October 31, 2001 and the Information Disclosure Statement filed on Jan. 8, 2004 and August 12, 2004.

2. In response to Examiner's Requirement of Election /Restriction dated 08/16/2005, Claims 1 – 61 are restricted in this application. Applicant elected Group III (claims 28 - 35) without traverse and has added new claims 62 – 67 for continued examination. Claims 1 – 27 and 36 - 61 have been canceled without prejudice. Claims 28 – 35 and 62 - 67 are pending in this application. Claims 28 and 62 are independent claims.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 28, 34 – 35 and 62 are rejected under 35 U.S.C. 102(b) as being anticipated by Nataraj et al., patent No. US 6,757,779 B1 – filed Oct. 31, 2001.

Regarding independent claim 28, Figure 12 of Nataraj discloses a content addressable memory (CAM) device [1200] comprising:

an array of CAM cells [1201];

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a write mapping circuit (Fig. 16 [1615]) to convert an input date word into a converted data word having one of at least two different patterns of constituent bits (Page 2 paragraph [0011] lines 3-4) according to the state of a first control signal (Page 2, paragraph [0011] lines 5-8); and

a read/write circuit [1211] coupled to receive the converted data word from the write mapping circuit (see Figs. 12 and 16) and coupled to the array of CAM cells [1201] to output the converted data word thereto (Page 2, paragraph [0011]).

Regarding dependent claim 34, Figs. 12, 16 and 19 of Nataraj disclose further comprising a write data selector having a first input port coupled to receive the converted data word from the write mapping circuit and a second input port coupled to receive the input data word, the write data selector being responsive to a second control signal to output either the converted data word or the input data word to the read/write circuit (Page 2, paragraph [0011]).

Regarding dependent claim 35, Figs. 12 and 18 of Nataraj disclose further comprising a read mapping circuit (Fig. 18 [READ CIRCUIT]) coupled to receive a read data word from the read/write circuit and configured to convert the read data word into a converted data word having one of at least two different patterns of constituent bits according to the state of the first control signal (Page 2, paragraph [0011]).

Regarding independent claim 62, Natataj discloses a method of operation within a content addressable memory (CAM) device (Fig. 12 [1200]), the method comprising:

receiving a control signal (Page 23, paragraph [0230] line 5)

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receiving an input data word (Page 10, paragraph [0155] lines 1-2)

converting the input data word into a converted data word having a first pattern of constituent bits (Page 2 paragraph [0011] line 4 and Page 46, claim 57 lines 5-6) if the control signal is in a first state (Page 2, paragraph [0011] line 6);

converting the input data word into a converted data word having a second pattern of constituent bits (Page 2 paragraph [0011] line 4 and Page 46, claim 57 lines 8-10); if the control signal is in a first state (Page 2, paragraph [0011] line 6); and storing the converted data word in an array of CAM cells (Page 2, paragraph [0011] lines 7-8).

Allowable Subject Matter

4. Claims 29-33 and 63-67 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

With respect to claim 29, the primary reason for indication of allowable subject matter is that the prior art fails to teach or suggest "the two different patterns of bits comprise equal numbers of bits".

With respect to claims 30 and 64, the primary reason for indication of allowable subject matter is that the prior art fails to teach or suggest "each set of four bits within the converted data word includes 2(to R) bits in a first stat e and the remaining bits in a

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second state if the first control signal selects a first conversion mode, R being the number of mask bits in a masking state within a group of two data/mask bit pairs".

With respect to claim 63, the primary reason for indication of allowable subject matter is that the prior art fails to teach or suggest "the first pattern of constituent bits includes the same number of bits as the second pattern of constituent bits".

Prior art

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kaginele Pub. No. US 2005/0050408 A1

Date of Patent: Mar. 3, 2005

Contact Information

6. Any inquiry concerning this communication from the examiner should be directed to Dang Nguyen, who can be reached by telephone at (571) 272-1955. Normal contact times are M-F, 8:00 AM - 4:30 PM.

Upon an unsuccessful attempt to contact the examiner, the examiner's supervisor, Richard Elms, may be reached at (571) 272-1869.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist, whose telephone number is (703) 305-3900. The faxed phone number for organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the Status of an application may be obtained from the

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patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or EBC@uspto.gov.

Dang Nguyen 9/15/2005

ANH PHUNG
PRIMARY EXAMINER

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